(b) a component recognizing CD40 antigen comprising a first antibody, or antigen-binding fragment thereof, that binds to a fiber-knob protein of said adenovirus, wherein said first antibody or antigen-binding fragment thereof is fused to a second antibody, or antigen-binding fragment thereof, that binds to CD40 antigen.

Please amend claim 11 as follows:

11. (twice amended) A method for genetically manipulating $CD40^-$ immune cells in an individual, comprising the step of:

administering the gene delivery system of claim 1 to said individual, wherein said gene delivery system mediates gene transduction and causes maturation of said immune cells.

Please amend claim 14 as follows:

14. (twice amended) A method for genetically manipulating $CD40^+$ immune cells in an individual, comprising the step of:

administering the gene delivery system of claim 6 to said individual, wherein said gene delivery system mediates gene transduction and causes maturation of said immune cells.

Please amend claim 17 as follows:

17. (twice amended) A method for enhancing dendritic cell-based vaccination in an individual, comprising the step of:

administering the gene delivery system of claim 1 to said individual, wherein said gene delivery system increases vaccination efficacy of $CD40^+$ dendritic cells in said individual.

Please amend claim 21 as follows:

21. (twice amended) A method for enhancing dendritic cell-based vaccination in an individual, comprising the step of:

administering the gene delivery system of claim 6 to said individual, wherein said gene delivery system increases vaccination efficacy of $CD40^+$ dendritic cells in said individual.

Please amend claim 40 as follows:

40. (twice amended) A method for enhancing dendritic cell-based vaccination in an individual, comprising the step of:

administering the gene delivery system of claim 34 to said individual, wherein said gene delivery system increases vaccination efficacy of $CD40^+$ dendritic cells in said individual.

Please amend claim 43 as follows:

43. (twice amended) A method for enhancing dendritic cell-based vaccination in an individual, comprising the step of:

administering the gene delivery system of claim 38 to said individual, wherein said gene delivery system increases vaccination efficacy of $CD40^+$ dendritic cells in said individual.

Please amend claim 53 as follows:

53. (twice amended) A method for enhancing dendritic cell-based vaccination in an individual, comprising the step of:

administering the gene delivery system of claim 47 to said individual, wherein said gene delivery system increases vaccination efficacy of $CD40^+$ dendritic cells in said individual.

Please amend claim 55 as follows:

55. (twice amended) A method for enhancing dendritic cell-based vaccination in an individual, comprising the step of:

administering the gene delivery system of claim 51 to said individual, wherein said gene delivery system increases vaccination efficacy of $CD40^+$ dendritic cells in said individual.